

PENDING CLAIMS

SEAMLESS REAR PROJECTION SCREEN

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1. A projection screen for displaying an image from an image source, the screen comprising:
 - a first diffusing assembly including a pre-screen comprising at least one optical faceplate of fibrous crystal; and
 - a second diffusing assembly comprising a diffused rear projection screen, the faceplate being positioned to receive an image from the image source and to further diffuse said image.
2. The screen of claim 1 wherein the pre-screen comprises a plurality of seamlessly tiled optical faceplates of fibrous crystal.
3. The screen of claim 1 further including an anti-reflection coating on a viewing side of said projection screen.
4. The screen of claim 1 wherein the optical faceplate is made from fibrous crystals selected from the group consisting of crystals not found in nature, and crystals not found in nature in fibrous form.
5. The screen of claim 1 wherein the optical faceplate is made from crystals selected from the group consisting of artificially grown crystals and synthesized crystals which do not exist in nature.
6. The screen of claim 1 wherein the optical faceplate is made from a material having fibrous crystals which are transparent, colorless, work as a coherent faceplate, and comprise fibers having a numeric aperture of between about 0.2 - 0.66.

7. The screen of claim 6 wherein the material is selected from the group consisting of Ulexite, Selenite, Artinite and Aragonite.
 8. The screen of claim 6 wherein the optical faceplate is made of lab-grown Ulexite ($\text{NaCaB}_5\text{O}_9 \cdot 8\text{H}_2\text{O}$).
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